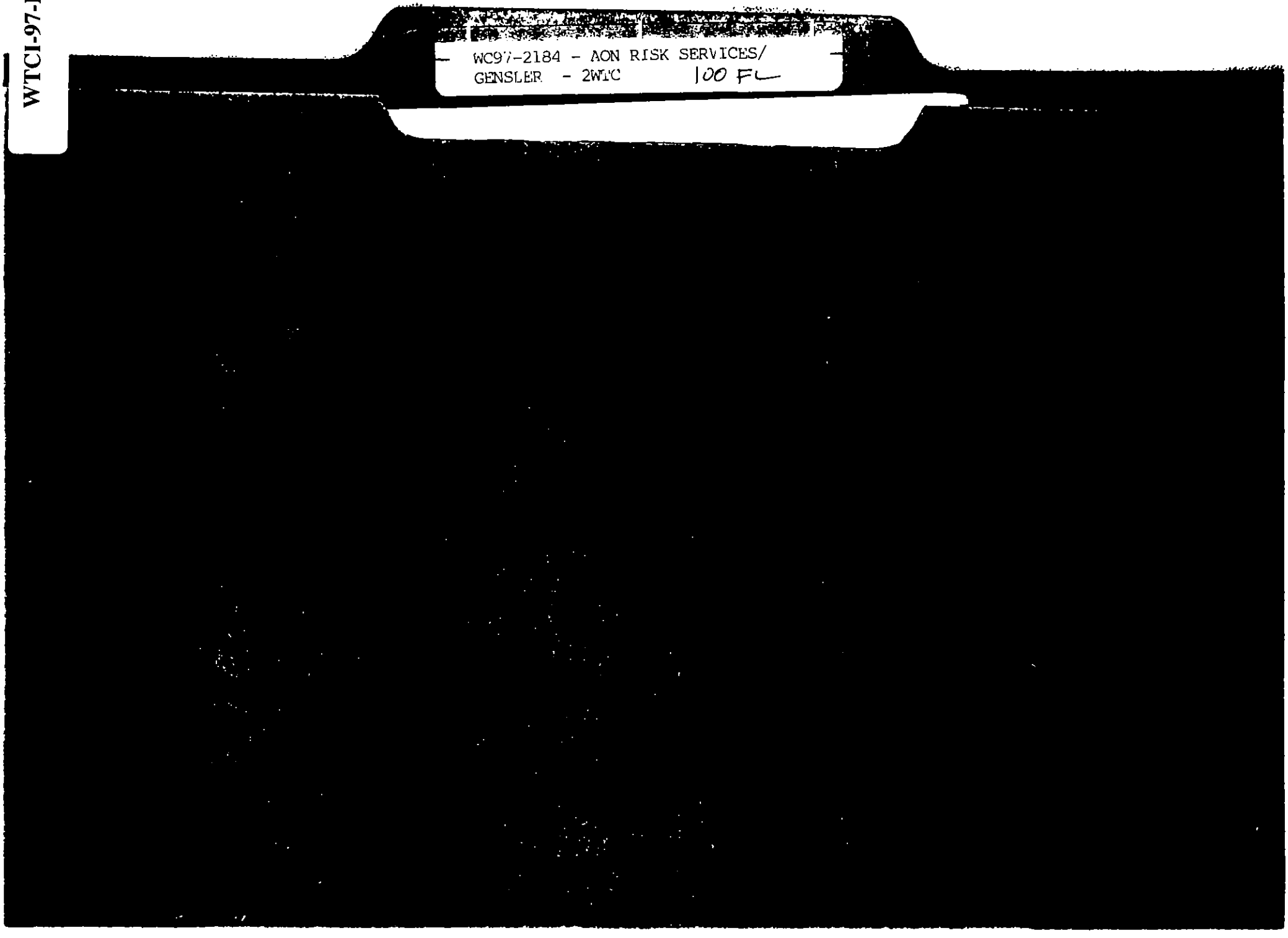
WTCI-97-P



Quality Assurance Division
Design Standards

TAA No. WC-97-2184 Charge Code: _____

Tenant: AON (self certified)

REVIEW STATUS

Submission No. & Date	Response To	Coordinator's Initial	Memo Date	Approval Date	Facility Rider	Outstanding Comments	Remarks/Status	DWG/SPEC Location

SELF CERTIFIED —

NOT AUDITED

THE PORT AUTHORITY OF NY & NJ

ONE WORLD TRADE CENTER
NEW YORK, NY 10048

(212) 435-7000
(201) 961-6600

September 4, 1997

Mr. Robert Gullo, Manager
AON Risk Services, Inc.
Two World Trade Center
New York, NY 10048-1096

RE: AON - 2WTC, 100TH FLOOR - SELECTIVE ALTERATION AND RENOVATION FOR TENANT REQUIREMENTS - T.A.A. 972184 - SELF CERTIFICATION - SUBMISSION 1 - REVIEW COMMENTS

Dear Mr. Gullo:

This letter responds to GENSLER's transmittal dated July 28, 1997 requesting a review of the documents listed on Attachment "A" to this letter. Tenant Alteration Application 972184, which was released for construction under the Professional Certification Program on July 31, 1997 has been reviewed, producing the comments listed in *attachment "B" to this letter*.

Any changes to the scope-of-work under this Application must be submitted to the Port Authority for review before the beginning of such work.

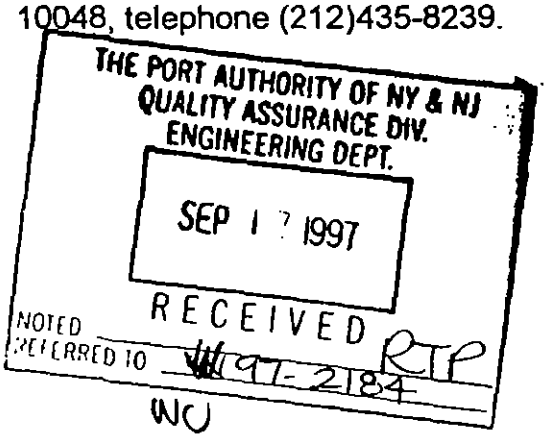
Incorporate the requirements of the comments into the documents, respond to them in writing and submit the required information for our record along with eight (8) sets of the revised documents by September 18, 1997. The revised documents must be signed and sealed by a Professional Engineer or Registered Architect licensed to practice in the State of New York. Please indicate all revisions and dates clearly.

All correspondence and inquiries should be directed to Mr. Everton Carless at One World Trade Center, 88 South, New York, NY 10048, telephone (212)435-8239.

Sincerely,

Patricia Cullen

Patricia A. Cullen, Supervisor
Tenant Alteration Application Unit
World Trade Department



attach.

cc: E. Carless, A. Donatich (LaSalle), T. Saad(GENSLER) by Fax

bcc: D. Bergstein, B. Colendenski*, T. Cullen, E. Daly*, G. Donohue, A. Fadavi, E. Monteverde, R. Muessig, J. Napolitano, R. Pisapia**, N. Seliga, Central File*, Chrono File*

THE PORT AUTHORITY OF NY & NJ

ATTACHMENT A - LIST OF DRAWINGS
T.A.A. - 972184
Submission 1

AON Risk Services, Inc.

No.	Description	Date
ARCHITECTURAL		
	COVER SHEET	
A0.1	DRAWING INDEX, SYMBOL LEGENDS, ETC.	07/18/97
A0.2	GENERAL NOTES AND ABBREVIATIONS	07/18/97
A0.3	TYPICAL MOUNTING LOCATIONS AND SUPPORT DETAILS	07/18/97
A0.4	FINISH SCHEDULE	07/18/97
A0.5	MILLWORK, HARDWARE, AND DOOR SCHEDULES	07/18/97
100-A0	100TH FLOOR DEMOLITION PLAN	07/18/97
100-A1	100TH FLOOR DEMOLITION/CONSTRUCTION PLAN	07/18/97
100-A2	100TH FLOOR REFLECTED CEILING PLAN	07/18/97
100-A3	100TH FLOOR POWER AND COMMUNICATION PLAN	07/18/97
100-A4	100TH FINISH PLAN	07/18/97
100-A5	100TH FLOOR FINISH PLAN	07/18/97
100-A6	100TH FLOOR FURNITURE PLAN - FOR INFORMATION ONLY	07/18/97
A7.01	ELEVATIONS	07/18/97
A7.02	ELEVATIONS	07/18/97
A8.1	DETAILS - PARTITION TYPES	07/18/97
A8.2	DETAILS - MILLWORK	07/18/97
A8.3	*CEILING DETAILS*	*07/18/97*
A8.4	DOOR DETAILS, MISC., DETAILS	07/18/97
A8.5	MISC. DETAILS	07/18/97
PA-S-1	PORT AUTHORITY CEILING SUPPORT DETAILS	07/18/97
MECHANICAL		
M-301	HVAC PLAN	07/18/97
M-302	SCHEDULE & SYMBOL LIST	07/18/97
M-303	VENTILATION INDEX	07/18/97
M-304	DETAILS	07/18/97
M-305	DETAILS	07/18/97

ATTACHMENT A - LIST OF DRAWINGS (CONT'D)
T.A.A. - 972184

No.	Description	Date
ELECTRICAL		
E-101	SYMBOL LIST, LIGHTING FIXTURE SCHEDULE & NOTES	07/18/97
E-201	ELECTRICAL SPECIFICATIONS	07/18/97
E-202	ELECTRICAL SPECIFICATIONS	07/18/97
E-301	LIGHTING PLANS	07/18/97
E-302	POWER PLAN	07/18/97
E-303	FIRE ALARM SYSTEM PLAN	07/18/97
E-304	FIRE ALARM DETAILS	07/18/97
E-305	FIRE ALARM DETAILS	07/18/97
E-401	ELECTRICAL DETAILS	07/18/97
E-501	RISER DIAGRAM	07/18/97
E-601	PANEL SCHEDULES	07/18/97
PLUMBING		
FP-201	SPRINKLER SPECIFICATIONS	07/18/97
FP-301	SPRINKLER FLOOR PLAN	07/18/97
TELECOMMUNICATIONS		
0-TC-1	100TH FLOOR TITLE SHEET	07/18/97
O-TC-2	100TH FLOOR SPECIFICATION	07/18/97
O-TC-3	TELECOM. CLOSET DETAILS	07/18/97
O-TC-4	MISC. DETAILS	07/18/97
100-TC-1	100TH FLOOR COMMUNICATIONS PLANS	07/18/97

(End of Documents)

THE PORT AUTHORITY OF NY & NJ

ATTACHMENT B - LIST OF COMMENTS
T.A.A. - 972184

AON RISK SERVICES

Note: The letter in parenthesis following the comment number is for internal *P.A. use only.*

STRUCTURAL

1.(W) Drawings 100-A1 and 100-A6:

a) Provide a file cabinet legend denoting their sizes and number of tiers, on Drawing A6.

b) Check the existing construction to verify it is not overloaded due to the added weight of the file cabinets, storage millwork shelving, office equipment, etc.

2.(W) Drawings 100-A3, 100-TC-1 and P-301. There are numerous proposed cores in the restricted zones. Either relocate these cores outside the restricted zone or refer to repair details on P.A. Standard Drawings STR-02 thru STR-08 and include the relevant details in set of drawings.

ELECTRICAL

3.(W) Drawing E101. Use new WTC standard exit light type "Lightalarms LED" series.

4.(W) Drawing E301. The public corridor exit signs shall be 120Volt and be fed from the existing 120Volt emergency circuits on the floor.

5.(W) Drawing E302. Feed the emergency light fixtures in the corridors from the existing 120Volt emergency circuits on the floor.Be advised that a maximum of one fixture per corridor is to be connected to the 120Volt power.

6.(W) Drawing E302. Show all work related to the new strobe to be installed (cable type, device type, EOL,etc.).

7.(W) Drawing E302. Show the connection of new panelboard RP-100WA1 to the floor cell system for the new floor mounted receptacles.

8.(W) Drawing E402. Elevator door release is a tenant function and is not provided by the WTC class "E" system.

9.(W) Drawing E501. Indicate the fuse size for the new disconnect switch in the west closet riser diagram.

10.(W) Drawing E501. Meter pan shall be Delta "HQ7-GN" with "IN" kit. (Item #14 in the west closet riser diagram).

11.(W) Drawing E501. New bus duct switches shall be Federal Pioneer LTD#600V-FPL-SP1236SNV-R.

12.(W) Drawing E501. Submit the one line diagram for the floor being worked on(100).

13.(W) General. Provide electrical load analysis on a usable square foot basis. WTC power system can provide six watts per square foot.

14.(W) General. Include attachment "C" (Testing procedures) of the WTC fire alarm guidelines in the contract document for the fire alarm work.

HVAC

15.(W) Drawing M-201:

a) Specification 4 Removal. Add the following note:

Abandoned tenant AC units, exhaust fans, plumbing fixtures, piping, ducts, hangers, supports, etc., shall be removed all the way back to the core riser closet, the nearest active branch main, or wet columns (for plumbing pipes) and capped, sealed watertight or airtight.

b) Specification 6 F: Water regulating valve for new AC unit should be Metrex, 2 way, not 3 way, type.

c) Specification 7 B: In general, insulation is not required for condenser water piping.

16(W) Drawing M-301: Add the note that the condenser water system serving this floor is provided from Shearson Lehman Brother condenser water system.

17(W) Drawing M-301: Inside existing base building condenser water closet C-7, one 1-1/2" condenser water return pipe and another 2" condenser water return pipe with section of no-hub piping are found. Identify those pipes. Delete the pipes

if they are not in use. No tenant AC units should be connected to base building condenser water system on this floor (100th floor).

18(W) Drawing M-402: Add installation details for AC piping and overflow drain pan. Add the pan and alarm requirements. Refer to PA/WTC HVAC Standard Design Guidelines Detail HVAC-CW-2 and HVAC-CW-3.

Plumbing

19(W) Drawing P-201: Water riser diagram, please show check valve for coffee maker and ice maker. Please show PRV installation at tie-in to wet column.

Fire Protection

20(W) Drawing FP-201: Specification 2.03 Flush sprinkler heads should be Reliable Model G-4, not G-4FR.

21(W) Drawing FP-301: In hydraulic calculation design criteria, please add "the available static pressure on 100th floor of 2 WTC is 137.2 psig."

22.(R) General. All door lock devices shall release upon activation of sprinkler waterflow alarm and/or detector activation.

(End of Comments)

090497

THE PORT AUTHORITY OF NY & NJ

C WORLD TRADE CENTER
NEW YORK, NY 10048
(212) 435-7000
(201) 435-7000

THE PORT AUTHORITY OF NY & NJ
QUALITY ASSURANCE DIV.
ENGINEERING DEPT.
AUG - 1997
RECEIVED
NOTED: WTC RTP
REFERRED TO: 97-2184

July 31, 1997

Mr. Robert Gullo
AON Risk Services, Inc.
Two World Trade Center
New York, NY 10048-1096

RE: AON - 2WTC, 100TH FLOOR - SELECTIVE ALTERATION AND RENOVATION FOR TENANT REQUIREMENTS - T.A.A. 972184 - SELF CERTIFICATION - RELEASE FOR CONSTRUCTION

Dear Mr. Gullo:

This letter responds to GENSLER's transmittal dated July 28, 1997 requesting a review of the documents listed on Attachment "A" to this letter. Tenant Alteration Application 972184 is released for construction under the Professional Certification Program.

Please be advised that your submitted set of documents are being audited by the Port Authority. Notification of any comments generated as a result of this review will soon be issued.

Any changes to the scope-of-work under this Application must be submitted to the Port Authority for review before the beginning of such work.

The certifying Licensed Professional and Contractor referred to in Rider "C" shall contact Mr. Joseph Panebianco at (212) 435-3226, to schedule a pre-construction meeting to discuss work scheduling and compliance with Port Authority requirements pertaining to construction work to be performed on premises.

All correspondence and inquiries should be directed to Mr. Everton Carless at One World Trade Center, 88 South, New York, NY 10048, telephone (212)435-8239.

Sincerely,

for Gerard Gaeta

Patricia A. Cullen, Supervisor
Tenant Alteration Application Unit
World Trade Department

attach.

cc: E. Carless, N. Pincus(GENSLER) by Fax

bcc: D. Bergstein, B. Colendenski*, T. Cullen, E. Daly*, G. Donohue, A. Fadavi, E. Monteverde, J. Panebianco, R. Pisapia**, N. Seliga, Central File*. Chrono File*

THE PORT AUTHORITY OF NY & NJ

ATTACHMENT A - LIST OF DRAWINGS
T.A.A. - 972184
Submission 1

AON Risk Services, Inc.

No.	Description	Date
ARCHITECTURAL		
	COVER SHEET	
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A0.2	GENERAL NOTES AND ABBREVIATIONS	07/18/97
A0.3	TYPICAL MOUNTING LOCATIONS AND SUPPORT DETAILS	07/18/97
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A8.4	DOOR DETAILS, MISC., DETAILS	07/18/97
A8.5	MISC. DETAILS	07/18/97
PA-S-1	PORT AUTHORITY CEILING SUPPORT DETAILS	07/18/97
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M-301	HVAC PLAN	07/18/97
M-302	SCHEDULE & SYMBOL LIST	07/18/97
M-303	VENTILATION INDEX	07/18/97
M-304	DETAILS	07/18/97
M-305	DETAILS	07/18/97
M-306	SPECIFICATIONS	07/18/97

THE PORT AUTHORITY OF NY & NJ

No.	Description	Date
ELECTRICAL		
E-101	SYMBOL LIST, LIGHTING FIXTURE SCHEDULE & NOTES	07/18/97
E-201	ELECTRICAL SPECIFICATIONS	07/18/97
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E-304	FIRE ALARM DETAILS	07/18/97
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E-501	RISER DIAGRAM	07/18/97
E-601	PANEL SCHEDULES	07/18/97
PLUMBING		
FP-201	SPRINKLER SPECIFICATIONS	07/18/97
FP-301	SPRINKLER FLOOR PLAN	07/18/97
TELECOMMUNICATIONS		
0-TC-1	100TH FLOOR TITLE SHEET	07/18/97
O-TC-2	100TH FLOOR SPECIFICATION	07/18/97
O-TC-3	TELECOM. CLOSET DETAILS	07/18/97
O-TC-4	MISC. DETAILS	07/18/97
100-TC-1	100TH FLOOR COMMUNICATIONS PLANS	07/18/97

(End of Documents)

073197

Buckslip THE PORT AUTHORITY OF NY & NJ

To. LOU MENNO Location. 88s

From: Ron Pisapia / WTC 51N / (212) 435-8562 Date 7/31/97

RE: TAA # WC97-2184

TENANT: AON

PROFESSIONALLY CERTIFIED PROJECT

cc: P. Cullen
E. Carless

Engineering Quality Assurance will not be auditing the above referenced project.

Ron Pisapia

ENG. OF PROJECTS
QAP/DS

PA 36
1-90

100% RECYCLED PAPER Soy Ink

NOT AUDITED

1997

THE PORT AUTHORITY OF N.Y. & N.J.
ENGINEERING DEPT. QUALITY ASSURANCE
DESIGN STANDARDS
WC97-2184 (1)
AUG - 1 1997
RECEIVED
ALTERATIONS APPLICATION

OFFICE COPY

BUCKSLIP

TO: Ronald Pisapia LOCATION: 5W7

FROM: Everton Carless DATE 7/29/97

RE: TAA 972184
AON - 100th FLOOR

Please inform us whether the referenced project will be audited by QAD.

Ev. x8239

Fax x8168

THE PORT AUTHORITY OF NY & NJ

PORT AUTHORITY OF NEW YORK & NEW JERSEY

TENANT ALTERATION APPLICATION REVIEW REQUEST

DISTRIBUTION		
No.	To	Facility
(1)	Quality Assur.	51N
(1)	S. Batra	88S
(1)	R. Becker	88S
(1)	S. P. Chiao	88S
(1)	J. Napolitano	88S
(1)	J. Castaldo	4WTC/4FL
	P. Taylor	4WTC/4FL
(1)	D. Warren	PATC ZIP 43
1	C. Bonacci	4WTC/6FL

Facility 2 WTC 100 TAA No. 972184 Date 7/29/97

Application / Tenant AON RISK SERVICES

Consultant GENSLER

Estimated Cost $200,000 Submittal No. 01

Description of Work

SELECTIVE ALTERATIONS AND RENOVATIONS FOR TENANT REQUIREMENTS

Please review the attached (revised) application and send comments to:

Name Everton Carless

Location 1 WTC, 88S Phone No. 435-8239

DUE DATE

DESIGN DISCIPLINES

- [X] Architectural
- [ ] Egress Analysis
- [X] Structural
- [X] HVAC
- [X] Plumbing
- [X] Sprinklers
- [X] Electrical
- [ ] Utility > 600 V
- [ ] Civil
- [ ] Geotechnical
- [ ] Environmental
- [ ] Fueling
- [ ] Radio Freq. Coord.
- [ ] Corrosion Protection
- [ ] Elevator / Escalator
- [ ] Other

ATTACHMENTS

- [X] Document List
- [X] Contract Drawings
- [ ] Contract Specifications
- [ ] Tenant Response
- [ ] Computations
- [ ] Reports
- [ ] Catalog Cuts
- [ ] Other

DESCRIPTION

Enclosed in drawings

NOT AUDITED

RTP

THE PORT AUTHORITY OF N.Y. & N.J.
ENGINEERING DEPT. QUALITY ASSURANCE
DESIGN STANDARDS

Special Instructions

SELF CERTIFICATION

AUG 1997
W99-2184 (1)
RECEIVED
ALTERATIONS APPLICATION

Copy To: P. Cullen, E. Daly, T. Lynch
E. Monteverde, N. Seliga
Dina Morin (Prop. Mgr)
J. Panebianco (w/2 sets)

AUG 1 1997

PA 2127 / 5-94

OFFICE COPY

PA 531 6-73

File Fee #
Contract #WTC-972.1E

THE PORT AUTHORITY OF NY & NJ
One World Trade Center, New York, N.Y. 10...

For Port Authority use only

FACILITY	APPLIC.
2 WTC 100	972184
DATE	APPLICANT'S NAME
7/29/97	AON

TENANT CONSTRUCTION OR ALTERATION APPLICATION

APPLICANT MUST READ THE TERMS AND CONDITIONS PRINTED ON THE REVERSE HEREOF

The Applicant shall not commence performance of any of the said work prior to the receipt by Applicant of a copy of this application duly signed in Part Two hereof on behalf of The Port Authority of New York and New Jersey. Upon receipt thereof, the Applicant agrees to perform said work in accordance with the following "Information to be Furnished by Applicant" and to comply with and be bound by all requirements and conditions set forth below under the remarks, if any, in Part Two hereof and the terms and conditions set forth on the reverse hereof.

PART ONE: Information to be furnished by Applicant (Refer to your lease or permit for required information)

Permission is hereby requested to perform the following described work on the space occupied by the Applicant

AT (FACILITY)	PURSUANT TO (LEASE, SPACE PERMIT) NUMBER	LOCATION (BUILDING NUMBER OR AREA) OF SPACE TO BE ALTERED
2 WTC		100th Floor

DESCIPTION OF WORK AND REASON

Selective demolition of areas; addition of new revisedconference rooms, conversion of offices to pantries, revised work areas.

ESTIMATED COST OF WORK	ESTIMATED TIME TO COMPLETE (DAYS)	STARTING DATE	COMPLETION DATE
$200,000	30	8 / 9 / 97	9 / 14 / 97

Plans: Prints of each drawing must be submitted with copies of application. Include floor plan and show area affected by proposed work (size 8 1/2" x 11" or larger).

TITLE OF DRAWING	DRAWING NUMBER	DATED
See attached list		

NAME & ADDRESS OF CONTRACTOR (IF NOT KNOWN, SUBMIT LATER)	NAME AND ADDRESS OF ENGINEER OR ARCHITECT	TELEPHONE NUMBER / LICENSE NUMBER
Structure Tone 15 East 26th Street New York, NY 10010	Walter A. Hunt, Jr. Gensler, 1 Rockefeller Plaza New York, NY 10020	

SEND CORRESPONDENCE TO:
(NAME AND ADDRESS OF EMPLOYEE IN CHARGE OF WORK)
AON
Two World Trade Center
New York, NY 10048
(Bob Gullo)

TELEPHONE NUMBER (212) 441 2858

APPLICANT'S NAME (AS IT APPEARS ON LEASE OR PERMIT)
AON

ENGINEER OR ARCHITECT CERTIFICATION

I have supervised the preparation of plans and specifications for the entire work represented herein and hereby certify that they conform to the requirements of the respective enactments, ordinances, resolutions and regulations of the City, town or municipality in regard to construction and maintenance of buildings and structures and in regard to health and fire protection which would be applicable if the Port Authority were a private corporation.

REGISTERED ARCHITECT WALTER A. HUNT JR. 17900 STATE OF NEW YORK

BY (SIGNATURE OF AUTHORIZED REP.)	TITLE	DATE	SIGNATURE OF LICENSED PROFESSIONAL ENGINEER OR ARCHITECT	DATE
		/ /	Walter A. Hunt	07/29/97

The Contractor by signing below agrees to all the terms and conditions on this application and printed on the reverse side thereof, including #5 indemnifying the Port Authority, and further agrees to be bound by all riders and schedules attached to this application

☐ The Applicant must check here if the Professional Certification Program is elected for tenant construction or alteration at the World Trade Center.

Signature: [signature] 7/29/97
(Contractor) Date

Signature: / /
(Applicant Officer/Partner) Date

Address:

Please advise the undersigned, in writing, when this work has been completed.

THE PORT AUTHORITY ... ENGINEERING DEPT. QUALITY ... DESIGN STANDARDS
AUG - 1 1997
WC97-2184 (1)
RECEIVED
BY ALTERATIONS APPLICATION TENANT CONSTRUCTION ...

PART TWO: Prepared by Port Authority and returned to Applicant

The above Application is ☐ Approved ☐ Disapproved. Subject to the following conditions:

☐ Continued on Rider "A," "B," "C," "F," and "G" (Rider G will be included only for the Professional Certification Program)

THE PORT AUTHORITY OF NY & NJ

INSPECTED BY	DATE	TITLE	DATE
		Manager of Tenant and Technical Services/WTD	/ /

OFFICE COPY

TRANSMITTAL

PA7 Auth

Gensler

To	Attention		
Everton Carless			
Address	**City**	**State**	**Zip**
1 Word Trade Center, 88 South	New York	NY	
Project	**Project Number**	**File**	
Aon	06.6173.000		
Subject			
Partition / Furniture plan			

For Your:	☐ *Approval and selection*	☐ *Use*	☐ *Record*
	☐ *Review / Comment*	☐ *Distribution*	☐ *Information*
Action Required:	☐ *Indicated on item transmitted*	☐ *Comment and return to Gensler*	☐ *No action required*
	☐ *Sign and return to this office*	☐ *See remarks below*	☐
Delivered Via:	☐ *Messenger*	☐ *Mail*	☐ *UPS*
	☐ *Express*	☐ *Hand carried*	☐ *Pick-up*

Quantity	*Description / Remarks*	*Dated*
14 sets	Prints of 100th, authorization forms included	July 28, 1997

THE PORT AUTHORITY
ENGINEERING DEPT. QUALITY ...
DESIGN STANDARDS
AUG - 1 1997
WC97-218A (1)
RECEIVED
ALTERATIONS APPLICATION
TENANT CONSTRUCTION REVIEW UNIT

OFFICE COPY

Transmittal Copies To:	*Enclosures*	*Delivered Via:*
Jacob Bousso		☐ *Messenger* ☐ *Mail* ☐ *Printer* ☐ *Express* ☐ *Hand carried* ☐ *Pick-up*
Nancy Pincus		☐ *Messenger* ☐ *Mail* ☐ *Printer* ☐ *Express* ☐ *Hand carried* ☐ *Pick-up*
Toufic Saad		☐ *Messenger* ☐ *Mail* ☐ *Printer* ☐ *Express* ☐ *Hand carried* ☐ *Pick-up*

If enclosures are not as described, please advise Gensler immediately.

Prepared by:	*Date:*
March Chadwick	July 28, 1997

r:\066173\current\transmit\99_parsc.doc

One Rockefeller Plaza
Suite 500
New York New York 10020
Tel: 212. 492. 1400
Fax: 212. 492. 1472

DRAWING LIST: 100TH FLOOR RENOVATIONS

COVER SHEET
A0.1 SYMBOLS, LEGENDS & DETAILS
A02 GENERAL NOTES AND ABBREVIATIONS
A03 TYPICAL PARTITION DETAILS AND MOUTING HEIGHTS
A04 FINISH SCHEDULE
A05 HARDWARE, MILLWORK & DOOR SCHEDULES AND DOOR TYPES
100-A0 100TH FLOOR DEMOLITION PLAN
100-A1 100TH FLOOR CONSTRUCTION PLAN
100-A2 100TH FLOOR REFLECTED CEILING PLAN
100-A3 100TH FLOOR POWER & TELEPHONE PLAN
100-A4 100TH FLOOR FINISH PLAN
100-A5 100TH FLOOR FLOOR FINISH PLAN
100-A6 100TH FLOOR FURNITURE PLAN
A7.1 ELEVATIONS
A7.2 ELEVATITIONS
A8.1 PARTITION TYPES & DOOR DETAILS
A8.2 MILLWORK DETAILS
A8.3 CEILING DETAILS
A8.4 DOOR DETAILS, MISC. DETAILS
A8.5 MISC. DETAILS
PA-S-1 LIGHT WEIGHT CEILING SUPPORT SYSTEM FOR FLOORS W/DBL TRUSS

M-101 100TH FLOOR HVAC SYMBOLS NOTES
M-201 100TH FLOOR DETAIL SHEET 2
M-301 100TH FLOOR HVAC PLAN
M-401 100TH FLOOR DETAIL SHEET 1
M-402 100TH FLOOR DETAIL SHEET 2
M-601 100TH FLOOR SCHEDULE SHEET

E-101 100TH FLOOR SYMBOL LIST, LIGHTING FIXTURE SCHEDULE AND NOTES
E-201 100TH FLOOR ELECTRICAL SPECIFICATIONS
E-202 100TH FLOOR ELECTRICAL SPECIFICATIONS
E-301 100TH FLOOR LIGHTING PLAN/ FIRE ALARM
E-302 100TH FLOOR POWER PLAN
E-401 100TH FLOOR ELECTRICAL DETAILS
E-501 100TH FLOOR ELECTRICAL RISER DIAGRAM AND ELECTRICAL CLOSET
E-601 100TH FLOOR PANEL SCHEDULES

P-201 100TH FLOOR PLUMBING SPECIFICATION
P-301 100TH FLOOR PLUMBING FLOOR PLAN
FP-201 100TH FLOOR SPRINKLER SPECIFICATION
FP-301 100TH FLOOR SPRINKLER FLOOR PLAN
O-TC-1 100TH FLOOR TITLE SHEET
O-TC-2 100TH FLOOR SPECIFICATION
O-TC-3 TELECOM. CLOSET DETAILS
O-TC-4 MISC. DETAILS
100-TC-1 100TH FLOOR COMMUNICATIONS PLANS

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WORLD TRADE CENTER
TENANT CONSTRUCTION OR ALTERATION APPLICATION

Tenant: AON | Lease No.: WT-

Contract No.: WTC-972.184 | Tenant Alteration Application No.: 972184

Filing Fee No.:

Rider "A"

Additional Terms and Conditions

A. The agreement between the Applicant and any materialman, contractor, subcontractor shall contain the following provisions:

1. That the Contractor shall arrange with the Port Authority's WTC Construction Division for scheduled use of material elevators 48 hours in advance of required use.

   It is presently anticipated, but not guaranteed that the elevator cars used for hoisting will be made available to the Contractor during normal working hours, 8:00 am to 3:30 pm, Monday through Friday, and outside normal working hours, at such times as they are available. The assignment of such cars during the Contractor's normal and overtime hours will be on a first come, first serve basis in accordance with a schedule which will be determined by the WTC Construction Division on a week-to-week basis, approximately 48 hours in advance of usage. Contractual commitments with others have been made and will be made during the period when deliveries are to be made hereunder. No representation is made that these cars will be made available to the Contractor on specific dates, or at any given time either during or outside normal working hours.

   After making such arrangements and being assigned elevator hours for deliveries, the Contractor shall pay for all the assigned time plus usage in excess of such assigned time at the following rates:

   a) For the first hour, part thereof, a minimum of $75.00 per hour, per car during normal working hours. and $150.00 per hour, per car during other than normal working hours.

   b) For each subsequent half hour. or portion thereof, a minimum of $75.00 per hour per car during normal working hours; $150.00 per hour per car during other than normal hours

2. That upon notice from the Port Authority, the Contractor shall halt any and all construction which in the opinion of the Port Authority is not or would not proceed until the Contractor's proposal to correct the work and procedures have been approved by the Port Authority.

3. That the Contractor shall daily clean up all refuse, rubbish, scrap materials and debris caused by his operation: that at all times, the construction site shall present a neat, orderly and workmanlike appearance. The Contractor shall remove and deposit the above refuse, rubbish, scrap materials and debris into containers (capacity one-half (1/2) cubic yards) centrally located, which will be supplied and emptied by the Authority, dependent upon the amount of debris removed at a minimum charge of $51.00 per half cubic yard to the Contractor.

   If the Contractor fails to place the refuse, rubbish, scrap materials and debris on a daily basis into such containers, then the Authority shall authorize others to perform these removals and the cost thereof shall be back-charged to the Contractor. These back-charges will be determined by the Authority. The removal as described above, shall be accomplished without storing excess quantities of any refuse, rubbish, scrap materials and debris of any sort resulting from the removal operations. However, it shall be the Contractor's responsibility to advise the Authority when he requires containers.

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Additional Terms and Conditions

4. That the Contractor shall compensate the Port Authority, at the rate of twenty-five Dollars ($25.00) per hour, or portion thereof (minimum of four (4) hours), provided by a uniformed guard in connection with maintaining security in a tenant area adjacent to, over or under the premises covered by this approved Application due to work required under this Application during the absence of any representative of that tenant, or the requirement of that tenant that a guard be provided in his area.

5. That the Applicant shall withhold payment to the Contractor of at least ten percent (10%) of the contract cost until the Applicant receives the certificate of completion from the Port Authority indicating that the work has been completed in accordance with the terms and conditions of the Application and that all claims by the Port Authority for services in connection with inspection of the work, hoisting, cleanup, or any other claims deemed appropriate by the Port Authority have been satisfied; and that the Applicant, out of such monies withheld, will have the right and shall compensate the Port Authority for such claims:

Prior to execution of any agreement between the Applicant and a Contractor, subcontractor, or materialman, the tenant shall submit their name, address and a telephone number. In no case shall the Applicant enter into any agreement for work on the premises with any contractor, subcontractor, or materialman who have not been approved in writing by the Port Authority for such work.

This Application shall be deemed withdrawn by the Applicant in the event performance of the work covered hereunder has not been commenced within one (1) year after the approval date, as shown in the lower right corner of this Application. In such event, the Applicant shall not commence performance of any work until the Applicant has submitted a new application to the Port Authority for its approval and has received a copy of such Application duly signed in Part Two thereof on behalf of the Port Authority.

Effective July 1, 1992, the Port Authority will charge fees for the review of Tenant Alteration, or Construction Applications, as per the following schedule, which represents fees similar to those of New York City for filing alteration plans in privately owned buildings.

Construction Dollars	Dollar Value of Fee
Up to $1,000.00	$ 75.00
$1001.00 to $2,000.00	$100.00
$2001.00 to $3,000.00	$120.00
$3001.00 to $4,000.00	$140.00
$4001.00 to $5,000.00	$160.00

In excess of $5,000.00, the fee is $160.00 plus $10.30 per $1,000.00,or fraction thereof above $5,000.00

Initialed:

Applicant: _____ Date: 7/29/92

Contractor: _____ Date: _____

Revised Sept. 1995

WORLD TRADE CI TER
TENANT CONSTRUCTION OR ALTERATION APPLICATION

Tenant: AON	Lease No.: WT-
Contract No.: WTC-972.184	Tenant Alteration Application No.: 972184
Filing Fee No.:	

Rider "B"

Claims of Third Persons

The contractor undertakes to pay all claims lawfully made against him by subcontractors, materialmen and workmen, and all claims lawfully made against him by other third party persons arising out of or in connection with or because of the performance of this Contract and to cause all subcontractors to pay, all such claims lawfully made against them.

If the Contractor fails to pay any such claim lawfully made against him, or any subcontractor of the aforesaid contingencies is likely to arise, then the owner shall have the right, in its discretion, to withhold out of any payment (final or otherwise and even though such payment has already been certified as due) such sums as the owner may deem ample to assure the payment of such claims and to apply such sums in such manner as the owner may deem proper to satisfy such claims. All sums so applied shall be deducted from the owner's compensation, omission by the owner to withhold out of any payment, final or otherwise, a sum of any of the above contingencies, even though such contingency has occurred at the time of such payment, shall not be deemed to indicate that the owner does not intend to exercise its right with respect to such contingency. Neither the above provisions for rights of the owner to withhold and apply monies, nor any exercise, or attempted exercise of, or omission to exercise, such rights by the owner shall create any obligation of any kind to such materialmen, subcontractors, workmen, or other third persons.

Until actual payment to the Contractor, his right to any amount to be paid under this Contract (even though such amount has already been certified as due) shall be subordinate to the rights of the owner under this numbered clause

No Port Authority Obligations

No obligations. or liabilities to the Contractor are assumed, or intended to be assumed by the Port Authority

Indemnity

A. The Contractor shall indemnify and hold harmless the Port Authority, its Commissioners, Officers, Agents and Employees, against and from,

1. The risk of injuries (including wrongful death), or damage direct or consequential, to it or them or to its or their property, arising out of, or in connection with the performance of the work, and,

2. The risk of claims and demands by third persons, arising, or alleged to arise out of the performance of the work, whether such risks arise out of acts, or omissions of the Contractor, or the Port Authority, or otherwise.

B. If so directed, the Contractor shall at its own expense defend any suit based upon any such claim, or demand (even if such suit, claim, or demand is groundless, false, or fraudulent), and in handling such, it shall not, without obtaining express advance permission from the General Counsel of the Port Authority, raise any defense involving in any way the jurisdiction of the tribunal over the person of the Port Authority, the immunity of the Port Authority, its Commissioners, Officers, Agents or Employees, the governmental nature of the Port Authority, or the provision of any statues respecting suits against the Port Authority.

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TENANT CONSTRUCTION REVIEW UNIT

Initialed:

Applicant: [signature] Date: 7/4/97

Contractor: Date:

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TENANT CONSTRUCTION OR ALTERATION APPLICATION

Tenant: AON	Lease No.: WT-
Contract No.: WTC-972.184	Tenant Alteration Application No.: 972184
Filing Fee No.:	

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General Requirements

A. 1. a) The WTC Project Manager (Planning & Design Division) for this T.A.A. is EVERTON CARLES located at 1WTC, Suite 36 South, Telephone: 212-435-8239

b) The WTC Supervising Engineer is Mr. Joseph Panebianco located at 1WTC, Suite 88S, Telephone: 212-435-3226.

2. In case of start of construction via an approved Tenant Alteration Application, or otherwise, it shall be the responsibility of the Tenant, or his Consultant to comply with any additional requirements resulting from Port Authority review.

3. Only the Contractor, whose signature appears on this Application and his sub-contractors, will be permitted to begin work at the construction site after approval of his Certification of Insurance. Any other Contractor who may be required to perform work under this Application will not be permitted to work at the construction site until he provides a separate Certification of Insurance which is approved by the Port Authority.

4. The Contractor shall notify the WTC Supervising Engineer and the Manager of WTC Plant and Structure, or their designated representatives, regarding any request for shutdown of base building utilities which will cause interruption of services in other areas of the building. Such request must be delivered to the Manager of WTC Plant and Structures at least ten (10) working days prior to the requested shutdown and shall be subject to the final approval of the Manager of WTC Plant and Structures.

5. All arrangements for temporary utilities, garbage removal, elevator services, etc., are the responsibility of the Contractor.

6. The Contractor shall at no time overload the freight elevators with his materials. Further, in order not to create an unsafe condition, he shall notify the Port Authority Inspector whenever the weight of the materials will exceed 50% of the capacity of the elevator. In such cases, the Port Authority Inspector will make arrangements to have the elevator maintenance personnel temporarily support the elevator cab to prevent it from being out of level during loading as a result of cable stretch. The Contractor shall reimburse the Port Authority for the cost of WTC Operations maintenance personnel at the rate of $55.00 per hour.

7. The approval of all Shop Drawings is the responsibility of the Tenants Consultants. Approved copies of same shall be submitted to the World Trade Center Project Manager for record purposes.

8. The Contract Drawings duly approved by World Trade Center Planning & Design Division, and Shop Drawings approved by the Tenant's Consultants shall be the only drawings used for construction.

All work under this Tenant Alteration Application will be subject to Port Authority inspection to ensure that it is in conformance with approved Contract Drawings, Specifications and Shop Drawings.

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10. Upon collection of this work, and issuance of the Permit to Occupy, one (1) complete set of reproducible Contact film, wash-off type "As-built" drawings (drawings should not be folded), conformed Specifications, all Shop Drawings, catalog cuts, etc., verified and approved by the responsible Architect/Engineer of Record, must be submitted to the World Trade Center Project Manager. In addition, one (1) copy of the AutoCAD compatible computer files that were used to prepare the drawings shall be submitted on 1.44 Megabyte floppy disk(s) for Port Authority records.

11. The Tenant and his Contractor shall plan and conduct all their operations as to work in harmony with others engaged at the construction site, and not to delay, endanger, or interfere with the operations of others.

12. The Port Authority maintains a stock of certain World Trade Center standard materials, which the Contractor may purchase. A complete list of available materials is obtainable from Ms. Patricia Bonny, WTC Planning & Design Division, One World Trade Center, Suite 36 South, Telephone: 212-435-7002.

13. It is the responsibility of the Contractor to return all World Trade Center Building Standard attic stock materials to be salvaged, as specified and directed by the Port Authority Inspector from WTC Construction Division.

14. The Contractor shall submit affidavits attesting to the fire retardancy of all wood construction, temporary or permanent, prior to installation, per New York City Building Code Section 27-328, to the WTC Supervising Engineer, or to the WTC Construction Inspector representing him in the field.

15. The following criteria shall be adhered to for all new electrical/telephone outlet coring of floor slabs in any World Trade Center building:

    a) All coring through floor slabs shall be strictly in accordance with Port Authority coring criteria standard drawings S-C1, S-C2 and S-C3.

    b) The Tenant's Consultant shall submit to the Port Authority a scaled core drawing with all Tenant Alteration Applications that require coring to be performed. The drawing(s) shall encompass the entire demised leasehold where coring work is extensive. Each cored hole shall be identified as to new, existing, active, abandoned, abandoned and filled, etc., and they shall be located with dimensions. Sizes of cores shall also be indicated. Where coring is required in conjunction with a Tenant Alteration Application of a minor nature, adjacent existing cores shall be identified and located by dimensions on the core drawing.

    c) All floor outlets to be removed, or abandoned, shall have all power wiring and cables removed back to the base building electrical closet panels, including all duct, wires and cables that are PVC-insulated. The after-set fittings shall be removed and filled in accordance with requirements of "a" above.

    d) When removing unused, or abandoned communication cables, the cables shall be removed from the cells all the way back to the binding posts in the Telephone Closets.

    e) Upon verification that communication equipment in telephone closets is completely abandoned, contractor shall remove frames, card holders and miscellaneous inactive equipment as well.

16. Core drilling and the shooting of studs into slabs, etc., with the use of power actuated fasteners, pneumatic and electrical handlers, or any other noise producing equipment,shall be permitted only between the hours of 6:00 PM and 8:00 AM. Further, an observer is required on the floor below to check for water leakage during the core drilling operation. In the event the Contractor is engaged in any other "noisy" operations, which disturb adjacent Tenant(s) operations, the Port Authority, at its sole discretion, may require the Contractor to perform said "noisy" operations during non-business hours.

Rider "C"

General Requirements

17. In the event the Contractor's work will affect the activation of smoke detectors, or other warning devices, the Contractor shall request the WTC Construction Inspector to have WTC Operations maintenance personnel deactivate such devices. During the deactivation period, the contractor shall provide qualified personnel to look for any unsafe conditions and contact the appropriate authorized personnel to take the necessary action, as directed by the WTC Construction Inspector Upon termination of above stated work conditions, the Contractor shall request the WTC Construction Inspector and WTC Operations maintenance personnel to activate the smoke detectors and other warning devices The Contractor shall reimburse the Port Authority for the cost of providing WTC Operations maintenance personnel at the rate of & 45.00 per hour (normal time), or $55.00 per hour (premium time).

    During burning and welding operations, the Contractor must use a smoke eater. Smoke eaters are available from the Port Authority at a rate of $25.00 per day, per unit.

Life Safety Systems

18. a) The Tenant's Consultant responsible for the preparation of Contract Documents shall provide wiring diagrams, installation procedures and applicable Shop Drawings for all new and existing life safety systems to be modified. The drawings shall indicate locations of cable terminations, sequence of operation, and specifications of all the component parts. All the life safety systems shall be connected to the World Trade Center Multiplex System. Systems involving more than one floor shall give a floor by floor fire indication to the Multiplex System. The applicable system shall include, but not be limited to, smoke detection, pre-action systems, and Halon. The documents required herein shall be submitted for Port Authority review at the time that other required Tenant Alteration Application documents are submitted.

    b) The Contractor shall perform preliminary testing of all fire and life safety equipment and systems to ensure that each component of every system functions in accordance with the approved Contract Documents, including but not limited to all wiring and connections, flow alarms, tamper alarms, electrical controls, smoke detectors, automatic dampers, interlock devices, air testing of piping, and other testing, as directed by the Port Authority. An approved substitute for Halon, e.g., air carbon dioxide, or other inert gas, or a suitable Freon may be used as a test medium during the preliminary testing of a Halon installation. All preliminary and final testing shall be performed in the presence of sub-contractor's personnel and Port Authority staff, as required by the WTC Construction Supervising Engineer.

    c) Any fire safety work, including but not limited to, smoke detectors, sprinklers, Halon systems, etc., shall be completed and operational prior to the Tenant occupying the premises. Occupancy may be permitted prior to completion of such work, only if approved by the Port Authority, in writing. In such instances, the Tenant must maintain a fire watch on the premises during the time that the premises remains unattended.

    d) The Contractor shall not perform any construction, hook-up, demolition, etc., at any location other than within the physical boundaries of he construction site as shown on the Contract Drawings appended to the Tenant Alteration Application. For any work not specifically shown and noted on the approved Contract Drawings and which is outside of the construction site, and the scope of which is part of the approved Tenant Alteration Application, the contractor shall submit to the WTC Supervising Engineer named herein before the exact routing to be followed in the performance of the Work. The routing shall then be evaluated by the WTC Asbestos Control Section to determine if any asbestos is present and if it might be disturbed.

e) Prior to occupancy of the premises, and prior to issuance of a Certificate of Completion the Tenant shall furnish to the WTC Supervising Engineer, a copy of an executed Agreement between the Tenant and a Contractor who shall be responsible for inspection and maintenance, as required by the New York City Fire Prevention Code of each new and/or existing tenant life safety system, including but not limited to, smoke detection, pre-action sprinkler systems and Halon suppression systems. This Agreement may no be canceled, terminated, or modified without written advance request to the Port Authority .

The Agreement between the Tenant and the Contractor shall provide that the Contractor is approved by the city of New York to perform such maintenance and inspection functions; that the Contractor will furnish copies of all periodic tests to the Port Authority Coordinator, Fire Safety Programs; that the Contractor will furnish copies of any renewal agreements at least 15 days prior to expiration and will notify the Port Authority Coordinator, Fire Safety Program, in the event that the Agreement has been canceled.

19. The Contractor shall mark the location of smoke detectors installed above ceilings with colored push-pins on the underside of the ceiling tiles. The pins may be obtained from WTC Operations at the B-2 Level. For smoke detectors located below the raised floors, the Contractor shall mark their locations with distinctive colored push-pins on the ceiling directly above the detectors, or mount on the wall within the room, a partial floor plan showing the raised floor area with dimensioned locations to each smoke detector.

20. It is required that existing demising walls be checked for penetrations and sealed to restore their fire rating. In addition, all existing structural steel fireproofing must be patched where material is missing, as required by the WTC Supervising Engineer. The materials used for sealing penetrations and patching firepoofing shall be as approved by the Port Authority.

21. It shall be the responsibility of the Tenant's consultant to see to it that the following requirement is met: All electrical work to be performed, including all electrical devices to which, or from which, any electrical connection, or disconnections are to be made, shall be shown on the Electrical Drawings.

22. The Contractor shall remove all electrical devices, including all conduits and wiring specified on the drawings, to be no longer in use.

23. Materials containing PVC will not be permitted in any permanent construction except for carpeting and underlayment.

24. The Tenant's Consultant shall submit for review and approved by the Port Authority catalog cuts for all new electrical panels and new circuit breakers which shall indicate that they are U.L. listed. In addition, whenever circuit breakers are to be installed in existing panels, or in panels not made by the circuit breaker manufacturer, such circuit breakers shall be U.L. classified for use in load centers and panel-boards manufactured by others.

Special Requirements

B. The following Items numbers 25 through 35 are not applicable to Communications Systems installations.

25. All permanent lock-sets, keying, etc., must be of the "Corbin" system and must conform with Port Authority requirements regarding stamping and keying of master ring cylinders having the Port Authority key-way. It is required that the Tenant purchase all their cylinders from the Port Authority. The Contractor must contact the World Trade Center Locksmith Shop, Four World Trade Center, 4th Floor, Telephone: 212-435-3182.

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Special Requirements

26. Induction Units:

    a) The contractor shall thoroughly clean all induction units, removing all dust and debris from plenum chamber. All induction unit thermostats shall be thoroughly checked for proper operation and recalibrated where required, or replaced if not functional. Only thermostats manufactured by Honeywell shall be installed in the peripheral HVAC Systems.

    b) The Contractor shall adjust induction unit's performance and remove excessive induction units as required in the contract documents. The Contractor shall be careful in removing the induction units, especially not to damage the piping.

    c) It is required that minimum six (6) inches clearance in front of induction unit intake grilles be provided to assure that the induction units can operate properly and delivery their design quantities.

27. Upon completion and testing of the HVAC Systems, four (4) copies of the Balancing Report must be submitted to the WTC Construction Supervising Engineer. One (1) copy shall be sent to the World Trade Center Project Manager. The testing must be performed in the presence of a WTC Construction Inspector.

28. Whenever equipment using condenser water is installed, the Contractor shall submit the following information o the WTC Supervising Engineer.

    a) A copy of the Name Plate Data for each A/C unit, including but not limited to the name of manufacturer, Model number, Serial number, and the rated capacity in BTU hour, or tons. This information shall be verified by the WTC Construction Inspector after installation is completed.

    b) Catalog cuts, operating manuals, and/or other documents which describe all the operating characteristics of each A/C unit.

    c) The information requested in the foregoing sub-paragraphs a) and b) of this numbered paragraph must be complied with prior to activating the system.

29. The following signage requirements shall be complied with by the Contactor:

    a) All open-ended piping terminating at a Janitor's Service Closet, ie., HVAC condensate drains, sprinkler system drains or other similar drain points, shall have durable signs securely affixed to the piping to identify the source of water by showing Tenant's name and system.

    b) All tenant connections to the World Trade Center condenser water, or similar auxiliary systems shall have durable signs which identify the tenant; tenant floor location and service (supply, or return). These signs shall be clearly visible from the floor level and have black lettering on a safety green background .

    c) All tenant standpipe, or sprinkler systems shall have durable signs installed at all flow test connections which instruct the Inspector to notify the WTC Operations Desk at 435-4164 prior to the start of any system tests.

30. Whenever the support system for any suspended ceiling is to be altered, or replaced as a result of any work authorized by this Alteration Application, the Tenant's Architect, or Engineer, whose seal appears thereon, shall provide details of the ceiling support system which conform to the standards set forth in the applicable Section of the New York City Building Code Section, and Port Authority Tenant Construction Review Manual, where these standards establish different, or conflicting requirements the more stringent requirement will prevail.

31. Audibility of the Fire Alarm Communications System must be maintained, as required by New York City Building Code Sections 27-972 and 27-975.

    a) A preliminary audibility test of the existing Fire Alarm Communications System shall be done in the presence of WTC Construction Inspector, Fire Safety Engineer, the Contractor and a Tenant representative prior to commencement of any work in the ceiling. If the results of this preliminary test find the audibility unsatisfactory, the Port Authority will take corrective action. If the results are satisfactory, no action is required by the Port Authority. The Port Authority shall receive a written copy of the Test results which are to be submitted to the Fire Safety Engineer.

    b) After construction is completed, and as part of the final inspection, an audibility test must be performed in the presence of a WTC Construction Inspector. If the test results are unsatisfactory, it is then the responsibility of the Contractor to correct the problem with the additional speakers and/or amplifiers, as required.

32. If sprinklers are being installed, four (4) black and whites and one (1) reproducible copy of Shop Drawing(s) and Hydraulic Calculations stamped "Approved" by the Architect/Engineer of Record must be submitted to the WTC Project Manager for approval.

33. The Tenant shall insulate those 17" x 8" supply ducts that are parallel with the North and South exposures in Two World Trade Center, and the East and West exposures in One World Trade Center. A copy of the criteria for this work entitled; "Supply Duct Insulation Specification", dated June 8, 1983, can be obtained from the World Trade Center Planning and Design Project Manager.

34. No Tenant shall connect to World Trade Center base building pneumatic control piping. If pneumatic controls are required, the Tenant shall provide his own compressor.

35. All proposal public corridor signage not being provided by the Port Authority, including door signs, shall be submitted to the WTC Project Manager for review and approval prior to fabrication, installation of customized signs are only permitted on Flex wood doors.

36. The drawings dated or revised dated, as referred to on the Application form are the only drawings released for construction by the approval of this Tenant Alteration Application. Additional drawings, or the above mentioned drawings with new revision dates are not approved for construction unless approved in writing, which is signed and issued by the WTC Project Manager named herein. No other drawings are permitted to be used on the construction site.

37. Retail tenants shall be responsible for protecting their store fronts with barricades that incorporate the World Trade Center's design standards.

38. Delivery of material to the World Trade Center via the Barclay Street ramp entrance is limited to trucks and trailers not exceeding 11'-9" in height unloaded.

39. The Contractor shall notify the Tenant's Architect/Engineer of Record and the WTC Supervising Engineer of any floor penetrations that are not shown on the contract drawings. Any necessary remedial closing of penetrations shall be as directed and supervised by the Tenant's Architect/Engineer in accordance with the requirements of Item 15 above.

40 Certification by the Registered Architect, or Professional Engineer, of the Applicant's choosing shall be executed by an authorized officer of the Applicant and shall be submitted to the Port Authority prior to occupancy. Such certificate shall declare that the construction work has been satisfactorily completed for occupancy in accordance with the approved plans and specifications and all jurisdictional building codes.

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Additional Requirements Resulting From the Review of Contract Drawings and Specifications by the Port Authority

C. Certification by the Registered Architect, or Professional Engineer, whose seal and signature appear on the Tenant Alteration review request shall be submitted to the Port Authority prior to occupancy. Such Certification shall declare that the construction work has been satisfactorily completed for occupancy in accordance with the approved plans and specifications. The Registered Architect, or Professional Engineer, referred to herein shall be prohibited from having any association, or other affiliation with the Contractor.

Chilled/Condenser Water Requirements

D. This Tenant Alteration Application requires the use of:

_____ Chilled Water _____ Tons _____ Condenser Water _____ Tons

This Tenant Alteration Application does not require the use of:

_____ Chilled Water _____ Condenser Water

See Attachment "A" for technical details.

Initialed:

Applicant: _____ Date: 4/6/07

Contractor: _____ Date: _____

WORLD TRADE CENTER
TENANT CONSTRUCTION OR ALTERATION APPLICATION

Revised Sept. 1995

Tenant: AON	Lease No.: WT-
Contract No.: WTC- 972.184	Tenant Alteration Application No.: 972184
Filing Fee No.:	

Rider "F"
General Requirements

A. 1. The Applicant shall not commence performance of any of the said work prior to the receipt by Applicant of a copy of this Application duly signed in Part Two hereof on behalf of The Port Authority of New York & New Jersey. Upon receipt thereof, the Applicant and Contractor agrees to perform said work in accordance with the following "Information to be Furnished by Applicant" and to comply with, and be bound by all requirements and conditions set forth below under the remarks, if any, in Part Two hereof, and the terms and conditions set forth on the reverse hereof, and any Riders attached.

2. Minimum Insurance Limits, unless specified to be greater, bodily injury $2,000,000.00 each person; $2,000,000.00 each occurrence; property damage $500,000.00 each accident; $500,000.00 aggregate.

Terms and Conditions

3. The Applicant and Contractor shall indemnify and hold harmless the Port Authority, its Commissioners, Officers, Agents and Employees, against and from:

a) The risk of any and all claims of injuries (including wrongful death), or damage direct, or consequential, to it, or them, or to its, or their property, arising out of, or in connection with the performance of the work, and;

b) The risk of claims and demands by third persons arising, or alleged to arise out of the performance of the work, whether such risks arise out of acts, or omissions of the Applicant, its Contractors, the Port Authority, or otherwise, except where indemnity would be precluded by New York State General Obligations Law.

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TENANT CONSTRUCTION

Initialed:
Applicant: Date:

Contractor: Date:

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FORM G1

APPLICANT OPTION FOR PROFESSIONAL CERTIFICATION AT THE WORLD TRADE CENTER

Applicant's Name: AON	Tenant Alteration:	Application: 972184

Applicant must read the reverse side of this form and sign in the space provided.

By its signature below, Applicant hereby submits this Tenant Alteration Application (hereinafter called the TAA) for Professional Certification at the World Trade Center, and affirm, understand, and agree as follows:

1. Applicant affirms to have met with duly appointed representatives of the Port Authority's (PA) World Trade Department (WTD), have had explained to me and understand the complete TAA process for Tenant construction work when this process is conducted entirely by the PA, as well as when it is conducted under the Professional Certification Program.
2. Applicant affirms to have elected the Professional Certification Program for TAA 972184 (write in number), and will direct the retained Registered Architect or Professional Engineer (hereinafter called the Consultant) to familiarize himself/herself with and conform to the requirements of this Rider.
3. Applicant understands that all TAA's submitted under the Professional Certification Program will be reviewed only by the WTD for compatibility of the Consultant's design with the WTC's existing structure and systems.
4. Applicant understands that under this Program, the Consultant will prepare all the documents necessary for construction, and will be responsible for certifying that the construction documents prepared in connection with TAA 972184 (write in number) are in compliance with applicable codes and PA technical standards.
5. Applicant understands that under this Program, the Consultant will also be responsible for certifying that the completed construction work in connection with TAA 972184 (write in number) has been performed in accordance with the approved construction documents, and all applicable codes and PA technical standards.
6. Applicant affirms that the Consultant being retained in connection with TAA 972184 (write in number) (circle A or B, as applicable):

   A. Has been selected from the PA's list of pre-approved consultants provided to me by the WTD.

      The Consultant's name is: Walter A. Hunt, Jr., Gensler

   B. Is not on the list of pre-approved consultants.

      The Consultant's name is _____

      In order to be approved by the PA as eligible for the Professional Certification Program, Applicant will direct the Consultant to submit to the PA, on its letterhead, documentation verifying and/or providing the following:

      i) A current license to practice in New York State.

      ii) That the Consultant has at least five (5) years of experience in the planning and design of office space and has completed at least ten (10) projects totaling in excess of 20,000 square feet constructed in New York City.

      iii) That the Consultant has a current staff appropriate to the size of the job and also shall have available a list of sub-Consultants with whom he/she regularly works, and will identify the number of licensed architects/engineers on his/her staff or the sub-Consultant's staff, and their specific high-rise office alterations experience as it relates to the type and size of the project in the WTC. The Consultant and sub-Consultant shall indicate the credentials, by resume, of all staff to be employed on any WTC project.

      iv) A copy of the Consultant and sub-Consultant's current errors and omissions certificate of insurance, including a 30-day cancellation notice to the PA.

      v) A list of high-rise, office-space alterations previously completed in New York City. The list should include each project's location and owner/lessee of the space, and the owner's/lessee's telephone number. The PA will obtain references on these projects

      vi) That the Consultant and sub-Consultants shall have demonstrated satisfactory performance on all Port Authority related work

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7. Applicant understands and agree[s] that each such alteration as described abo[ve] in 6.B.iii) shall have assigned to it at least one principal of the Consultant and sub-Consultant.

8. Applicant agrees to be responsible for the payment of all filing fees connected with the review of TAA 972184 (write in number).

9. Applicant understands that the PA will review the documentation outlined in 6B. above, and within five (5) business days of its receipt will inform the Consultant and Applicant of approval or disapproval for eligibility for the Professional Certification Program.

10. Applicant understands that should the Consultant be disapproved, that all subsequent consultants selected by the Applicant shall be subject to meeting the requirements of item 6 above, and that for each such subsequent consultant the Applicant will be required to submit to the PA a new and completed form G1.

11. Applicant understands that if the TAA filed under the Professional Certification Program is requested to be withdrawn after approval and prior to the beginning of construction of the work in any form, while still requiring the work to be done, that the Applicant must file a new TAA for the same work, through the WTD, which will be reviewed under the standard TAA process. If Applicant again wishes to file the same work under the Professional Certification Program, Applicant must again submit complete plans, approval lists, and all other completed documents required by the Program. APPLICANT WILL BE PERMITTED ONLY ONE SUCH WITHDRAWAL AND RE-APPLICATION.

12. Applicant understands that within each weekly period 20% of all professionally certified TAA's filed with the WTD will be selected for a complete construction document review for compliance with applicable codes and PA technical standards. Such reviews will occur within 30 calendar days of the TAA's receipt by the WTD, and will be in addition to the review described in item 3 above. If this TAA is selected for review, the Consultant and the Applicant will be so informed within five (5) business days of such decision.

13. Applicant understands that the Consultant and Applicant will be informed within five (5) business days of the completion of such review.

14. Applicant understands that should construction work of any kind have been installed which is in conflict with the findings of the PA, that the Applicant will order such work to cease, direct it to be removed and replaced and/or modified to conform with the review's findings. Such change to the construction work will be based on the Consultant's modified construction documents, which will have been reviewed and approved by the PA.

15. Applicant agrees that all construction work in item 14 above shall be performed at the Applicant's expense.

16. Applicant understands that such modified construction documents cannot be filed under the Professional Certification Program, and will be processed under the PA's standard TAA review process.

AON

Applicant's Name | Applicant's Duly Authorized Representative (print and sign) | Date

RIDER G
FORM G2

ONSULTANT CERTIFICATION
FOR TENANT ALTERATIONS AT THE WORLD TRADE CENTER

Consultant's Name: Walter A. Hunt, Jr., Gensler Tenant Alteration Application: 972184

Consultant must read the reverse side of this form and sign in the space provided.

I am the Consultant for AON (Tenant's name), in connection with Tenant Alteration Application (hereinafter called TAA) identified in the title block above, which has been selected for the Professional Certification Program. I have met with the staff of the Port Authority's (PA) World Trade Department (WTD) and have had explained to me the World Trade Center's (WTC) facility-specific technical/design standards, as well as PA wide technical/design standards applicable to the WTC. All such standards will be provided to me in written form at my request.

I understand that:

1. All work-types filed under a TAA in this Program must be professionally certified. In instances where multiple work-types are filed by multiple Consultants simultaneously, under one TAA, only one Form G3 is required.
2. Amendments to TAA's which are professionally certified must be professionally certified as well. The PA will determine whether any such filing shall be filed as a new job, and if so, the amendment(s) will receive a new TAA number. If not, the amendment will be considered as part of the original TAA.
3. Once having filed under the Professional Certification Program, the construction documents will be reviewed ONLY by the WTD for compatibility with the WTC's existing structure and systems.
4. I must include with my submission under this Program, the COMPLETED forms listed below. Form G4 will be submitted at the completion of construction. All forms must be fully signed by the Applicant, the Contractor, or me, as applicable.
   A. Tenant Alteration Application/(Form PA 531/8-73), and its Riders A (revised 9/93), B, C, and F (revised 5/93).
   B. Form G1, the Applicant Option for Professional Certification (completed by the Applicant).
   C. Form G2, Consultant Certification (completed by me).
   D. Form G3, Items Required at Filing with the WTD (completed by me).
   E. Form G4, Items Required Following Construction Completion (completed by me).
5. Within each weekly period, 20% of all professionally certified TAA's filed with the WTD will be selected for a complete construction document review. Such review will occur within 30 calendar days of the TAA's receipt by the WTD and will, in addition to the review described in item 3 above, include review for compliance with applicable codes and with PA technical standards. If this Application is so selected, the Applicant and I will be so informed within five (5) business days of such decision.
6. The Applicant and I will be informed of the results of such PA-reviews within five (5) business days of the completion of the review. I will modify the construction documents to be consistent with the results of the PA's review and resubmit them for further review and approval. Such additional reviews cannot be filed under the Professional Certification Program, and will be processed under the PA's standard review process for Tenant construction.
7. At the completion of construction in connection with this TAA, I will be responsible for certifying that the construction work has been executed in accordance with the approved construction documents.
8. I shall indemnify and hold harmless the Port Authority, its Commissioners, Officers, Agents, and Employees against and from:
   A. The risk of any and all claims of injuries (including wrongful death), or damage, or direct or consequential, to it or to its property arising out of or in connection with the preparation of the TAA and the construction documents, the inspection of the construction work or the Consultant's certifications;
   B. The risks of claims and demands by third persons arising, or alleged to arise out of the preparation of the TAA and the construction documents, the inspection of the construction work or the Consultant's certifications whether such risks arise out of acts or omissions of the Applicant, its Contractors, the Consultant, the Port Authority or otherwise except where indemnity would be precluded by the New York State General Obligations Law

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CERTIFICATION:

I HAVE READ, UNDERSTOOD, AND CONFORMED WITH ALL THE REQUIREMENTS DESCRIBED ABOVE, AND I HEREBY STATE THAT I HAVE EXERCISED A PROFESSIONAL STANDARD OF CARE IN CERTIFYING THAT THE FILED APPLICATION IS COMPLETE AND IN ACCORDANCE WITH THE APPLICABLE LAWS AND PORT AUTHORITY TECHNICAL STANDARDS. I AM AWARE THAT THE PORT AUTHORITY WILL RELY UPON THE TRUTH AND ACCURACY OF THIS STATEMENT. IF NON-COMPLIANCE IS DISCLOSED, I AGREE TO NOTIFY THE PORT AUTHORITY OF THE REMEDIAL MEASURES WHICH I PROPOSE TO TAKE TO MEET THE REQUIREMENTS OF THE NEW YORK CITY BUILDING CODE AND ITS REFERENCE STANDARDS, THE NEW YORK CITY ELECTRICAL CODE, THE PORT AUTHORITY TECHNICAL STANDARDS, AND ALL APPLICABLE LAWS AND REGULATIONS. I FURTHER AGREE THAT ANY MISREPRESENTATION OR FALSIFICATION OF FACTS MADE KNOWINGLY OR NEGLIGENTLY BY ME, MY AGENTS OR EMPLOYEES, OR ADDITIONALLY, BY OTHERS WITH MY KNOWLEDGE, RENDERS ME LIABLE FOR LEGAL ACTION BY THE PORT AUTHORITY. SUCH MISREPRESENTATION OR FALSIFICATION MAY ALSO RESULT IN TERMINATION OF MY PARTICIPATION IN THE PROFESSIONAL CERTIFICATION PROGRAM AT THE WORLD TRADE CENTER. I ALSO CONSENT TO THE PORT AUTHORITY PROVIDING ANY INFORMATION RELATIVE TO SUCH MISREPRESENTATION OR FALSIFICATION TO ANY AGENCY OR OTHER PERSON OR ENTITY IT DEEMS APPROPRIATE.

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CONSTRUCTION REVIEW UNIT

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(seal)
REGISTERED ARCHITECT
WALTER A. HUNT, JR.
17900
STATE OF NEW YORK

Walter A. Hunt, Jr., Gensler	Walter a. Hunt	07.24.1997
Consultant's Name	Consultant's Signature	Date

RIDER G
FORM G3

ITEMS REQUIRED AT FILING WITH THE WORLD TRADE DEPARTMENT

Alteration Application: 972184	Applicant's Name: AON
Location: Two World Trade Center	

The Consultant is required to make a notation of Yes or No to indicate whether or not the item is included.
THIS APPLICATION FOR PROFESSIONAL SELF-CERTIFICATION WILL BE REJECTED IF ANY INFORMATION IS MISSING, INCOMPLETE, OR NOT PROVIDED AS REQUIRED.

Checklist 1: Document

YES	NO	
	X	N.Y.S. Dep't of Env't Conservation
	X	Fire Alarm Design approved by Fire Dep't
X		Demolition Drawings
X		Architectural Drawings
	X	Egress Analysis Drawings
	X	Structural Drawings
X		Electrical Drawings
X		HVAC Drawings
X		Plumbing Drawings
X		Fire Protection Drawings
	X	Cost Estimate for all Trades and Equipment
	X	Hazardous Material (describe below)
	X	Other (describe below)

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Checklist 2: Controlled Inspections

YES	NO	
	X	Welding (27-616)
	X	Aluminum (Table 10-2)
	X	High Strength Bolts (Table 10-2)
	X	Smoke Test (27-868)
	X	Fire Stops (27-345)
	X	Ventilation Systems (27-779)
	X	Fuel Burning/Storage (27-794)
	X	Refrigeration System (27-781)
	X	Plumbing and Gas Piping Test (27-921)
	X	High Pressure Gas (RS 16-P115.8N)
	X	Sprinkler Test (27-967)
	X	Standpipe Test (27-951)
	X	Fire Alarm Test (27-977)
	X	Emergency Generators (27-794)
	X	Structural Stability (R&REG 10/16/92)
	X	Spray on Fireproofing (27-324)
	X	Reinforced Masonry (Table 10-2)
	X	Masonry Units (RS 10-3 3.2)
	X	Concrete (27-603)
	X	Concrete-Precast (27-607)
	X	Concrete Pre-Stressed (27-607)
	X	Concrete Design Mix (27-605)
	X	Concrete Test Cylinders (27-607A(1)
	X	Other (describe below)

NOTES

1. The Consultant is required to provide a complete list of drawings, their titles, drawing numbers and date of completion. The list must be on the Consultant's letterhead, must also include all other documents necessary for the proposed design, be signed by the Consultant and attached to this form.

2. The Consultant must describe his/her proposed remediation to any disclosed code non-conformance. Such description must be on the Consultant's letterhead, signed by the Consultant, and attached to this form.

3. Should the Consultant require additional space to complete either the "Other" or "Hazardous Material" categories, he/she must provide such information on his/her letterhead and attach it to this form.

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Consultant Name and Address
Walter A. Hunt, Jr.
Gensler, 1 Rockefeller Plaza
New York, NY 10020
Seal (P.E. or R.A.) and Signature

REGISTERED ARCHITECT
WALTER A. HUNT, JR.
17900
STATE OF NEW YORK

Date 07.24.1997

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RIDER G
FORM G4

ITEMS REQUIRED FOLLOWING CONSTRUCTION COMPLETION AT THE WORLD TRADE CENTER

Alteration Application:	Applicant's Name: AON
Location: Two World Trade Center	

The Consultant is required to make a notation of Yes or No to indicate whether or not the item is included.
THIS APPLICATION FOR PROFESSIONAL CERTIFICATION WILL BE REJECTED IF ANY INFORMATION IS MISSING, INCOMPLETE, OR NOT PROVIDED AS REQUIRED.

Checklist 1: Controlled Inspections Completed (NYC Building Code Section)

YES	NO		YES	NO	
	X	Welding (27-616)	X		Fire Alarm Test (27-977)
	X	Aluminum (Table 10-2)		X	Emergency Generators (27-794)
	X	High Strength Bolts (Table 10-2)		X	Structural Stability (R&REG 10/16/92)
	X	Smoke Test (27-868)		X	Spray on Fireproofing (27-324)
X		Fire Stops (27-345)		X	Reinforced Masonry (Table 10-2)
	X	Ventilation Systems (27-779)		X	Masonry Units (RS 10-3 3.2)
	X	Fuel Burning/Storage (27-794)		X	Concrete (27-603)
	X	Refrigeration System (27-781)		X	Concrete-Precast (27-607)
	X	Plumbing and Gas Piping Test (27-921)		X	Concrete Pre-Stressed (27-607)
	X	High Pressure Gas (RS 16-P115.8N)		X	Concrete Design Mix (27-605)
X		Sprinkler Test (27-967)		X	Concrete Test Cylinders (27-607A(1)
	X	Standpipe Test (27-951)		X	Other (describe below)
	X	Other (describe below)			

CERTIFICATION

I Walter A. Hunt, Jr., the Consultant whose seal and signature appear in the construction documents listed on Form G2, and Tenant Alteration Application 972184, certify and declare that the construction work has been satisfactorily completed in accordance with the approved plans and specifications and the NYC Building Code.

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Consultant Name and Address
Walter A. Hunt, Jr.
Gensler, 1 Rockefeller Plaza
New York, NY 10020

Seal (P.E. or R.A.) and Signature

Date 07.24.1997

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